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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/552,292	04/19/2000	Arch D. Robison	42P11329	2880

8791 7590 09/07/2005

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EXAMINER

KISS, ERIC B

ART UNIT	PAPER NUMBER
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2192

DATE MAILED: 09/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Interview Summary**

Application No.

09/552,292

Applicant(s)

ROBISON, ARCH D.

Examiner

Eric B. Kiss

Art Unit

2192

All participants (applicant, applicant's representative, PTO personnel):

(1) Eric B. Kiss. (3) \_\_\_\_\_.

(2) Ashley R. Ott (Reg. No. 55,515). (4) \_\_\_\_\_.

Date of Interview: 30 August 2005.

Type: a) ☐ Telephonic b) ☐ Video Conference  
c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☒ No.  
If Yes, brief description: \_\_\_\_\_.

Claim(s) discussed: 1, 10 and 13.

Identification of prior art discussed: Kukol (US 5,628,016).

Agreement with respect to the claims f) ☒ was reached. g) ☐ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: See Continuation Sheet.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

  
TUAN DAM  
SUPERVISORY PATENT EXAMINER

Examiner Note: You must sign this form unless it is an  
Attachment to a signed Office action.

\_\_\_\_\_  
Examiner's signature, if required

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## Summary of Record of Interview Requirements

### Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

### Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

#### Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

#### 37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,  
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

### Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

Continuation of Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Parties discussed proposed amendments to independent claims 1, 10, and 13. The Examiner indicated that, pending further investigation (consideration and/or search), the proposed claims appear to define over the applied prior art, and would positively advance the prosecution. The Examiner further indicated that the proposed amendments appear to overcome the rejections under 35 U.S.C. 101, 112, as they are consistent with the interpretations and suggestions presented in the previous Office action. Ms. Ott indicated that she would file a formal amendment consistent with the proposed amendments discussed.

PTOL-413A (09-04)  
Approved for use through 07/31/2006. CMB 0851-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

### Applicant Initiated Interview Request Form

Application No.: 09/552,292 First Named Applicant: Robison  
Examiner: Kiss, Eric B. Art Unit: 2192 Status of Application: Pending/  
Non-Final Rejection

#### Tentative Participants:

(1) Ashley Ott (2) Eric Kiss  
(303) 740-1990  
(3) \_\_\_\_\_ (4) \_\_\_\_\_

Proposed Date of Interview: 08/30/05 Proposed Time: 11 (AM/PM)

#### Type of Interview Requested:

(1) ☒ Telephonic (2) ☐ Personal (3) ☐ Video Conference

Exhibit To Be Shown or Demonstrated: ☐ YES

If yes, provide brief description: \_\_\_\_\_

☒ NO

### Issues To Be Discussed

Issues (Rej., Obj., etc)	Claims/ Fig. #s	Prior Art	Discussed	Agreed	Not Agreed
(1) <u>Rej. - 102(b)</u>	<u>1-6, 10-17</u>	<u>Kukul</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2) <u>Rej. - 112</u>	<u>1-6, 10-17</u>	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(3) <u>Proposed Amendment</u>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(4) <u>Continuation Sheet Attached</u>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### Brief Description of Arguments to be Presented:

Kukul does not disclose placing operations to eliminate partial  
redundancies, as recited by claim 1.

An interview was conducted on the above-identified application on 8/30/2005.  
NOTE: This form should be completed by applicant and submitted to the examiner in advance of the interview (see MPEP § 713.01).

This application will not be delayed from issue because of applicant's failure to submit a written record of this interview. Therefore, applicant is advised to file a statement of the substance of this interview (37 CFR 1.133(b)) as soon as possible.

Ashley Ott  
Applicant/Applicant's Representative Signature

Examiner/SPE Signature

Ashley Ott  
Typed/Printed Name of Applicant or Representative

55,515  
Registration Number, if applicable

This collection of information is required by 37 CFR 1.133. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

ATTACHMENT TO INTERVIEW SUMMARY 10f5

EBK

ATTACHMENT TO INTERVIEW SUMMARY 2 of 5

Continuation Sheet: Proposed Amendment to the Claims

1. (Currently Amended) For a computer-executable program that operates on a data structure, where the data structure must have a required state at selected program points, a computer-implemented method of transforming said program comprising:

(A) analyzing the program to determine the state of said data structure at said selected program points;

(B) partitioning said determined state at each said program point into components that may each be set separately;

(C) determining operations to be inserted into the program in order to set each component of the state at each selected program point based on flow equations for an up-safety and a down-safety of setting the state at each selected program point, wherein the operations assure that the data structure will be in ~~an accurate~~ the required state at the selected program points; and

(D) placing said operations to eliminate partial redundancies of said operations.

2. (Currently Amended) The computer-implemented method of claim 1, wherein the data structure stores items on a first-in-last-out basis.

3. (Currently Amended) The computer-implemented method of claim 2, wherein the states of the data structure are represented as paths on a tree of nodes where:

(A) each path traverses the tree towards the root; and

(B) each node on the path represent a component of the state.

ATTACHMENT TO INTERVIEW SUMMARY 3 of 5

4. (Currently Amended) The computer-implemented method of claim 2, wherein the data structure represents actions to be taken by the program if an exception occurs.
5. (Currently Amended) The computer-implemented method of claim 4, wherein the selected program points are the points of execution immediately before instructions that might cause an exception.
6. (Currently Amended) The computer-implemented method of claim 4, further comprising representing the actions to be taken as exception paths in a graph.
- 7-9. (Cancelled)
10. (Currently Amended) For a computer-executable program that operates on a data structure, where the data structure must have a required state at selected program points, a computer-implemented method of transforming said program comprising:
- (A) analyzing the program to determine the state of an instance of said data structure at said selected program points;
  - (B) partitioning said instance of said data structure into components;
  - (C) determining a set of one or more operations to be inserted into the program in order to set each component of the state at each selected program point based on flow equations for an up-safety and a down-safety of setting the state at each selected program point, wherein the operations assure that the data structure will be in ~~an accurate~~ the required state at the selected program points;
  - (D) computing placement of the set of operations to eliminate partial redundancies; and

ATTACHMENT TO INTERVIEW SUMMARY 4 of 5

(E) inserting the set of operations at said program points according to the computed placement.

11. (Currently Amended) The computer-implemented method of claim 10 wherein the data structure is an exception handling stack.

12. (Currently Amended) The computer-implemented method of claim 11 wherein the components are a pointer to the exception handling stack and an exception handling data structure.

13. (Currently Amended) A machine-readable medium having a set of instructions, which when executed by a set of one or more processors, causes said set of processors to perform operations comprising:

(A) analyzing a program that operates on a data structure, which must have a required state at selected program points in the program, to determine the state of an instance of said data structure at said selected program points;

(B) partitioning said instance of said data structure into components;

(C) determining a set of one or more operations to be inserted into the program in order to set each component of the state at each selected program point based on flow equations for an up-safety and a down-safety of setting the state at each selected program point, wherein the operations assure that the data structure will be in an accurate the required state at the selected program points;

(D) computing placement of the set of operations to eliminate partial redundancies; and



ATTACHMENT TO INTERVIEW SUMMARY 5 of 5

(E) inserting the set of operations at said program points according to the computed placement.

14. (Previously Presented) The machine-readable medium of claim 13, wherein the data structure stores items on a first-in-last-out basis.

15. (Currently Amended) The machine-readable medium of claim 14, wherein the states of the data structure are represented as paths on a tree of nodes where:

(A) each path traverses the tree towards the root; and

(B) each node on the path represent a component of the state.

16. (Previously Presented) The machine-readable medium of claim 14, wherein the data structure represents actions to be taken by the program if an exception occurs.

17. (Previously Presented) The machine-readable medium of claim 16, wherein the selected program points are the points of execution immediately before instructions that might cause an exception.

18. (Cancelled)